

iW-Rainbow-G39H

Industrial Panel PC



iWave Systems iW-G39H Panel PC HMI solution is an advanced industrial HMI with a high-performance ARM Cortex-A53 multicore processor, 7-inch or 10.1-inch industrial grade display, a wide range of high-speed interfaces, and connectivity options to meet emerging automation needs.

iW-G39H HMI solution SDK enables for quick development of custom applications. Advanced UX and computing features are available with 3D graphics and libraries for rich user Interfaces. SDK Integrated with Network Protocol, Message-Oriented Middleware, Web Browser, web server, Programming Language Packages, Security suite, Programming language Packages, optional automotive protocol stack packages.... make it a go-to solution for all diverse applications.

Inhouse Hardware, Software, Industrial Design team, and Comprehensive technical support combinedly deliver a class-leading automation solution to OEMs and System integration markets globally.

HIGHLIGHTS

- NXP i.MX 8M Mini application processor
- 7" & 10.1" Reliable high brightness display and multi touch solution
- M.2 Expansion Slot for Connectivity, GNSS or SSD.
- CAN, RS485, USB, Ethernet Communication, Wi-Fi/BT
- Optional Slot for pluggable sensor or wireless modules
- Solution with Linux and Android SDKs for diverse application requirement.
- Optional packages support for Automotive protocol stacks
- Aluminium housing with IP65 Front Panel with Panel/Vesa/RAM mount option.

APPLICATIONS

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|-----------------------------------|------------------------------------|--------------------|
| • Industrial/ Building Automation | • Smart Warehousing | • EV Charger |
| • Interactive KIOSK and Ticketing | • Food & Brewery / Vending Machine | • Smart Healthcare |

CPU
NXP i.MX8M Mini Quad
4 x Cortex-A53 @1.6GHZ
1 x Cortex-M4F @400MHZ
Memory
2GB/1GB LPDDR4 RAM
8GB eMMC Flash & Micro SD x 1 Slot
Interface
CAN FD x 2 ports
RS232 x 1 port and RS485 x 2
Ethernet Up to 1Gbps x 2 *
USB 2.0 Host Type-A Connector x2
USB OTG x 1 port, Audio Line (OUT)
Isolated Digital In & out x 2 upto 36V (sinking)
Analog Input 4 x 4-20mA or +/-12V
Keypad, Battery for emergency data Backup*
Buzzer or speaker, External Watchdog Timer
RTC with Coin cell battery, MIPI Camera*
Wireless Communication interfaces
WiFi IEEE 802.11 a/b/g/n/ac & BLE 5.0
Operating System
Linux 5.4.70 & Android 9.0.0
M.2 Expansion slot
M.2 Connector Key B*(for LTE & positioning or SSD)
PCIe 2.0 x 1, USB 2.0 x 1
Micro SIM Connector /eSIM & External Antenna
Peripheral Expansion*
UART/i2C/SPI interface for Plug and Play wireless module & Sensor

Enclosure
Front Bezel & Back cover: Aluminium
Mounting Option: Vesa, RAM & Panel Mount
Ingress Protection: IP65 for front panel
Typical Environment condition
Operating Temperature: -20° C to 65° C
Humidity: 95% @ 40° C
Power Input
9V - 24V DC (Upto 36V)
POE+* and Load Dump Protection (-36V -90V)
LCD Specification
Display size: 7" 10.1"
Resolution: 1024 x 600 1280 x 800
Brightness: 800 cd/m ²
Backlite Life: Minimum 50K Hours
Touch: Optical bonded PCAP Multi Touch
Software & Protocols
GUI Libraries: 2D & 3D graphics & open source libraries(OpenGL ES, OpenCL, OpenCV & OpenVG)
Programming: C++, C, Python & Java, JavaScript, HTML5 & PHP
Security[#]: Secure boot, Secure partition, Wireless security, wolf SSL, OS hardening, SSH & SFTP
PLC: Modbus RTU(RS485) & Modbus TCP
CAN[#]: CAN Protocol Supports: ISO 15765-4 CAN, J1939, ISO 11898, CANopen, CiA 447
Web application: Webserver, Browser & Node.JS
Remote Desktop: VNC client & server

Note: # In plan/Custom, * Optional features, please contact iWave Systems for information

RELATED PRODUCTS



Rugged HMI - iW-G39RH series

Ruggedized HMI is designed to operate in harsh environments and conditions like strong vibrations, extreme temperatures, and wet or dusty conditions. HMI offers various OS and flexible mounting support (Vesa, panel, RAM) with a wide temperature range, and compliance to standard certifications

Note: iWave reserves the right to change these specifications without notice as part of iWave's continuous effort to meet the best in breed specification. The registered trademarks are proprietary of their respective owners.

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